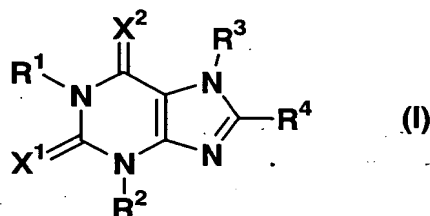


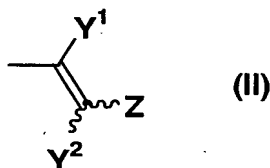
CLAIMS

1. An agent for treating migraine comprising, as an active ingredient, a xanthine derivative represented by formula (I):



[wherein R^1 , R^2 and R^3 are the same or different, and represent a hydrogen atom, lower alkyl, lower alkenyl or lower alkynyl;

R^4 represents cycloalkyl, $-(CH_2)_n-R^5$ (wherein R^5 represents substituted or unsubstituted aryl, or substituted or a unsubstituted heterocyclic group; and n represents an integer of 0 to 4) or a group represented by formula (II):



(wherein Y^1 and Y^2 are the same or different, and represent a hydrogen atom, halogen or lower alkyl; and Z represents substituted or unsubstituted aryl or a substituted or unsubstituted heterocyclic group);

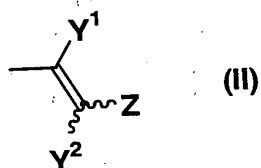
X^1 and X^2 are the same or different, and represent an oxygen atom or a sulfur atom]

or a pharmaceutically acceptable salt thereof.

2. The agent for treating migraine according to claim

1, wherein X^1 and X^2 are both an oxygen atoms.

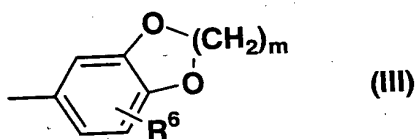
3. The agent for treating migraine according to claim 1 or 2, wherein R^4 is a group represented by formula (II):



(wherein Y^1 , Y^2 and Z each have the same meanings as defined above).

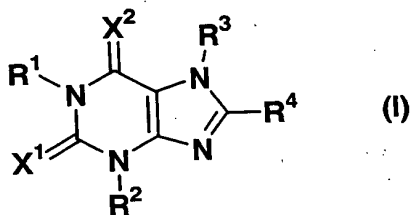
4. The agent for treating migraine according to claim 3, wherein Y^1 and Y^2 are both hydrogen atoms.

5. The agent for treating migraine according to claim 3 or 4, wherein Z is substituted or unsubstituted aryl or a group represented by formula (III):



(wherein R^6 represents a hydrogen atom, hydroxy, lower alkyl, lower alkoxy, halogen, nitro or amino; and m represents an integer of 1 to 3).

6. A method for treating migraine which comprises administering an effective amount of a xanthine derivative represented by formula (I):

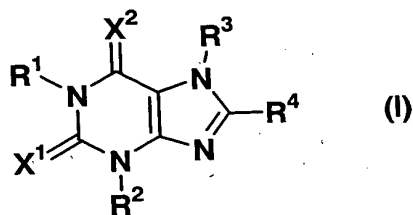


(wherein R¹, R², R³, R⁴, X¹ and X² each have the same meanings as defined above)

or a pharmaceutically acceptable salt thereof.

7. Use of a xanthine derivative represented by formula

(I):



(wherein R¹, R², R³, R⁴, X¹ and X² each have the same meanings as defined above)

or a pharmaceutically acceptable salt thereof for the manufacture of an agent for treating migraine.